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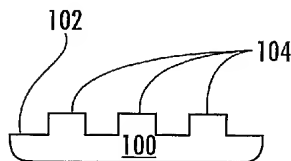
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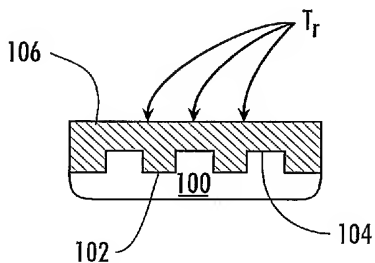
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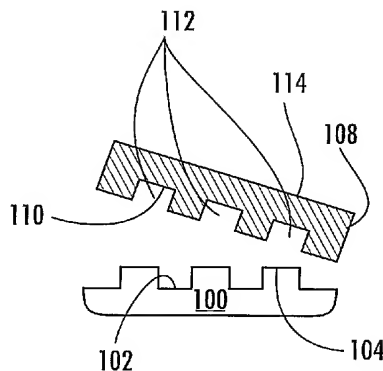
(54) Title: FUNCTIONAL MATERIALS AND NOVEL METHODS FOR THE FABRICATION OF MICROFLUIDIC DEVICES



A



B



C

(57) Abstract: The presently disclosed subject matter provides functional perfluoropolyether (PFPE) materials for use in fabricating and utilizing microscale devices, such as a microfluidic device. The functional PFPE materials can be used to adhere layers of PFPE materials to one another or to other substrates to form a microscale device. Further, the presently disclosed subject matter provides a method for functionalizing the interior surface of a microfluidic channel and/or a microtiter well. Also the presently disclosed subject matter provides a method for fabricating a microscale structure through the use of a sacrificial layer of a degradable material.



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